O1PE 303 2005

TRANSMITTAL FORM

TFW

			Filing Date	April	8, 2004
(to be used for all corresp	ondence afte	er initial filing)	First Named Inventor	Alok	Kumar
			Art Unit	2881	
l			Examiner Name	Not a	ssigned
Total Number of Pages in	This Submissi	on	Attomey Docket Number	r 42P1	7967
	ENCLOS	SURES (chec	k all that apply)	,	-
Fee Transmittal Form		Drawing(s)			After Allowance Communication to Group
Fee Attached		Licensing-r	elated Papers		Appeal Communication to Board of Appeals and Interferences
Amendment / Response		Petition			Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
After Final Affidavits/declarati	on(s)	Petition to Provisional	Convert a Application		Proprietary Information
Extension of Time Reque	est	Power of A Change of	ttorney, Revocation Correspondence Addres	, 🗆	Status Letter
Express Abandonment R	equest	Terminal D	isclaimer		Other Enclosure(s) (please identify below):
Information Disclosure St	tatement	Request for	Refund		eturn Receipt Postcard
PTO/SB/08		CD, Number	er of CD(s)		eferences
Certified Copy of Priority	4			L	
Response to Missing Par Incomplete Application		Remarks			
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Response to Missi Parts under 37 CFI 1.52 or 1.53	ng R				
	SIGNATURE	OF APPLICA	NT, ATTORNEY, OR	AGENT	
Firm Paul	A. Mendor	sa, Reg. No.	12,879		
,	AKELY, S	OKOLOFF,	TAYLOR & ZAF	MAN I	LLP
Signature	and 87	Sendon	r.		
Date Dec	ember 31,	2004			
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Application No.

10/822,034



# RANSMITTAL for FY 2005

Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27. TOTAL AMOUNT OF PAYMENT (\$)

С	omplete if Known	
Application Number	10/822,034	
Filing Date	April 8, 2004	
First Named Inventor	Alok Kumar	
Examiner Name	Not assigned	
Art Unit	2881	
Attorney Docket No.	42P17967	

METHOD OF PAYMENT (check all that apply)	
□Check □Credit card □ Money Order ☒None □	Other (please identify):
Deposit Account Deposit Account Number: 02-2666	Deposit Account Name: Blakely, Sokoloff, Taylor & Zafman LLP
For the above-identified deposit account, the Director is	hereby authorized to: (check all that apply)
☐ Charge fee(s) indicated below	Charge fee(s) indicated below, except for the filing fee
□ Charge any additional fee(s) or underpayment of fe	ee(s) Credit any overpayments
under 37 CFR 88 1 16 1 17 1 18 and 1 20	

#### FEE CALCULATION

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FeeFee		Fee	Fee	Fee Description	Fee Paid
Code(\$)	)	Code	(\$)	1 de Desemption	i ee i alu
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
2053	130	2053	130	Non-English specification	
1251	120	2251	60	Extension for reply within first month	
1252	450	2252	225	Extension for reply within second month	
1253	1,020	2253	510	Extension for reply within third month	
1254	1,590	2254	795	Extension for reply within fourth month	
1255	2,160	2255	1,080	Extension for reply within fifth month	
1401	500	2401	250	Notice of Appeal	
1402	500	2402	250	Filing a brief in support of an appeal	
1403	1,000	2403		Request for oral hearing	
1451	1,510	2451	1,510	Petition to institute a public use proceeding	
1460	130	2460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1606	180	Submission of Information Disclosure Stmt	
1809	790	1809	395	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	790	2810	395	For each additional invention to be examined (37 CFR § 1.129(b)	)
Other fe	e (spe	cify)			
		- /		SUBTOTAL (2)	

SUBMITTED E	BY			Comp	lete (if applicable)
Name (Print/Type)	Paul A. Mendonsa	Registration No. (Attorney/Agent)	42,879	Telephone	(503) 439-8778
Signature	Shelf Mondonox			Date	12/31/04



### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

the Application of:

ALOK KUMAR, ET AL.

Application No.: 10/822,034

Filed: April 8, 2004

FOI: APPARATUS AND METHOD FOR TWO-STAGE PACKET CLASSIFICATION USING MOST

SPECIFIC FILTER MATCHING AND TRANSPORT LEVEL SHARING

Art Group: 2881

Examiner: Not assigned

#### INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

In accordance with the duty of disclosure, enclosed is a copy of IDS Citation Form PTO/SB/08 or PTO-1449, together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed). This IDS and IDS Citation Form are being submitted before the mailing of a first Office Action. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Respectfully submitted,

BLAKELY/SOKOLOFF, TAYLOR & ZAFMAN LLP

Paul A. Mendonsa, Reg. No. 42,879

12400 Wilshire Boulevard, 7th Floor Los Angeles, CA 90025

Telephone: (503) 439-8778

Date: December 31, 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

/Venkatesh Halivur/ (02/19/2008)

12-31-04

Rachael L. Brown Date

PROTE TRACE

### Specialitate for form 1449A/PTO NFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of 4 Sheet

Co	omplete if Known	
Application Number	10/822,034	
Filing Date	April 8, 2004	
First Named Inventor	Alok Kumar	
Art Unit	2881	
Examiner Name	Not assigned	
Attorney Docket Number	42P17967	

		U.S. PATE	NT DOCUMENTS		
Examiner Cite	Document Number	Publication Date	Name of Patentee or Applicant	Pages, Columns, Lines, Where	
Initials' No.'	Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	of Cited Document	Relevant Passages or Relevant Figures Appear	
7VH/1	US-6,147,976	11-14-2000	Shand, et al.		
2	US-6,252,872 B1	06-26-2001	Tzeng		
3	US-6,289,013 B1	09-11-2001	Lakshman		
4	US-6,301,669 B2	10-09-2001	Boden		
5	US-6,341,130 B1	01-22-2001	Lakshman		
6	US-2002/0165949 A1	11-07-2002	Na, et al.		
17	US-2002/0191605 A1	12-19-2002	Lunteren, et al.		
- 8	US-6,529,508 B1	03-04-2003	Li, et al.		
9	US-6,567,408 B1	05-20-2003	Li, et al.		
10	US-6,587,466 B1	07-01-2003	Bhattacharya, et al.		
11	US-2003/0051165 A1	03-13-2003	Krishnan, et al.		
12	US-2003/0074458 A1	04-17-2003	Gokhale		
<b>V</b> 13	US-2003/0123386 A1	07-03-2003	Yang		
	US-				

FOREIGN PATENT DOCUMENTS						
Examiner Cite	Cite	Foreign Patent Document			Pages, Columns, Lines,	_
Initials*	No.'	Country Code - Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	11.
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Examiner   Signature   /Venkatesh Haliyur/ (02/19/2008)   Date   Considered	
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Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wir) 08/11/2003.

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

of 4

Sheet

Co	emplete if Known
Application Number	10/822.034
Filing Date	April 8, 2004
First Named Inventor	Alok Kumar
Art Unit	2881
Examiner Name	Not assigned
Attomey Docket Number	42P17967

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.'	Include name of the author (in CAPITAL LETTERS), little of the article (when appropriate), title of the item (bcck, magazine, journal, serial, symposium, calaba, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where publishers.	T²
/VH/	14	M.E. KOUNAVIS, ET AL., "DIRECTIONS IN PACKET CLASSIFICATION FOR NETWORK PROCESSORS", Second on Network Processors (NP2), Anaheim, CA, February, 2003, pp 1-10	
/VH/	15	P.F. TSUCHIYA, "A SEARCH ALGORITHIM FOR TABLE ENTRIES WITH NON-CONTIGUOUS WILDCARDING", Bellcore, 1991, 9 pgs.	
/VH/	16	DEGERMARK, ET AL., "SMALL FORWARDING TABLES FOR FAST ROUTING LOOKUPS", Computer Communication Review, acm sigcomm, Vol. 27, No. 4, Oct. 1997, 16 pgs.	
/VH/	17	SHAFAI, ET AL., "FULLY PARALLEL 30-MHz, 2.5Mb CAM", IEEE Journal of Solid-State Circuits, Vol. 33, No. 11, November 1998, 9, pgs.	
/VH/	18	SRINIVASAN, ET AL., "FAST AND SCALABLE LAYER FOUR SWITCHING", Computer Communication Review, acm sigcomm, Vol. 28, No. 4, Oct. 1998, 14 pgs.	
/VH/	19	LAKSHMAN, ET AL., "HIGH-SPEED POLICY-BASED PACKET FORWARDING USING EFFICIENT MULTI-DIMENSIONAL RANGE MATCHING", Computer Communication Review, acm sigcomm, Vol. 28, No. 4, October 1998, 14pgs.	
/VH/	20	BUDDHIKOT, ET AL., "SPACE DECOMPOSITION TECHNIQUES FOR FST LAYER-4 SWITCHING", IEEE Com-Soc TC on Gigabit Networking Sixth Intnl. Workshop on Protocals for High-Speed Networks (PfHSN 99), 1999, 12 pgs.	

Examiner   Signature	/Venkatesh Haliyur/ (02/19/2008)	Date Considered	
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	MATION		CLIDE	Application Number	10/822.034	_
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STATEMENT BY APPLICANT			CANT	First Named Inventor	Alok Kumar	
				Art Unit	2881	-
				Examiner Name	Not assigned	_
Sheet	3	of	4	Attorney Docket Number	42017067	_

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS); title of the stricle (when appropriate), title of the item (book, magazine, journal, serial, symposium, calsiog, etc.), date, page(e), volume-issue number(e), publisher, cily and/or country where publisher.	T²
/VH/	21	GUTPA, ET AL., "PACKET CLASSIFICATION ON MULTIPLE FIELDS", Computer Communication Review, acm sigcomm, Vol. 29, No. 4, October 1999, 16 pgs.	
/VH/	22	SRINIVASAN, ET AL., "PACKET CLASSIFICATION USING TUPLE SPACE SEARCH" Computer Communication Review, acm sigcomm, Vol. 29, No. 4, October 1999, 14 pgs.	
/VH/	23	GUPTA, ET AL., "CLASSIFYING PACKETS WITH HEIRARCHICAL INTELLIGENT CUTTINGS", IEEE Micro Chips, Systems Software, and Applications, Jan/Feb. 2000, 10 pgs.	
/VI-	24	HARI, ET AL. "DETECTING AND RESOLVING PACKET FILTER CONFLICTS", IEEE Infocom 2000, The Conference on Computer Communications, Vol. 3, 12 pgs.	
/VH/	25	FELDMAN, ET AL., ""TRADEOFFS FOR PACKET CLASSIFICATION", IEEE Infocom 2000, The Conference on Computer Communications, Vol. 3, 12 pgs.	
/VF	26	BABOESCU, ET AL., "SCALABLE PACKET CLASSIFICATION", Computer Communication Review, acm sigcomm, Vol. 31, No. 4, October 2001, 14 pgs.	
/VH	27	PRAKASH, ET AL., "OC-3072 PACKET CLASSIFICATION USING BDDs AND PIPELINED SRAMs" HOT Interconnects 9, Symposium on High Performance Interconnects, IEEE Computer Society, 2001, 8 pgs.	

Examiner Signature	/Venkatesh Haliyur/ (02/19/2008)	Date Considered	
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'Applicant's unique citation designation number? Applicant is to place a check mark here if English language Translation is attached.

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Examiner

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INITO	DATATION	31001.0	CUDE	Application Number	10/822.034	
INFORMATION DISCLOSURE			SUKE	Filing Date	April 8, 2004	-
STATEMENT BY APPLICANT			ICANT	First Named Inventor	Alok Kumar	
				Art Unit	2881	
	,			Examiner Name	Not assigned	
Sheet	4	of	4	Attorney Docket Number	42P17967	

## NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or Examiner | Cite Initials\* No. country where published. GUTPA, ET AL., "ALGORITHIMS FOR PACKET CLASSIFICATION", IEEE Network, 28 The Magazine of Global Internetworking, March/April 2001, Vol. 15, No. 2, 11 pgs. /VH/! BABOESCU, ET AL., "PACKET CLASSIFICATION FOR CORE ROUTERS: IS THERE 29 AN ALTERNATIVE TO CAMs?", IEEE Infocom 2003, 11 pgs. /VH/

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